

Patent Application US/07/943,852

#2
OK

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Le, Junming
Vilcek, Jan
Daddona, Peter E.
Ghrayeb, John
Knight, David M.
Siegel, Scott A.

(ii) TITLE OF INVENTION: MONOCLONAL AND CHIMERIC ANTIBODIES
SPECIFIC FOR HUMAN TUMOR NECROSIS FACTOR

(iii) NUMBER OF SEQUENCES: 5

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Browdy and Neimark
(B) STREET: 419 Seventh Street, N.W.
(C) CITY: Washington
(D) STATE: D.C.
(E) COUNTRY: USA
(F) ZIP: 20004

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0,
Version #1.25

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:
(B) FILING DATE:
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 07/670,827
(B) FILING DATE: 18-MAR-1991

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 202-628-5197
(B) TELEFAX: 202-737-3528

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 157 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

Patent Application US/07/943,852

54 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
55
56 Val Arg Ser Ser Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His Val
57 1 5 10 15
58
59 Val Ala Asn Pro Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn Arg Arg
60 20 25 30
61
62 Ala Asn Ala Leu Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu
63 35 40 45
64
65 Val Val Pro Ser Glu Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe
66 50 55 60
67
68 Lys Gly Gln Gly Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile
69 65 70 75 80
70
71 Ser Arg Ile Ala Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala
72 85 90 95
73
74 Ile Lys Ser Pro Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys
75 100 105 110
76
77 Pro Trp Tyr Glu Pro Ile Tyr Leu Gly Gly Val Phe Gln Leu Glu Lys
78 115 120 125
79
80 Gly Asp Arg Leu Ser Ala Glu Ile Asn Arg Pro Asp Tyr Leu Asp Phe
81 130 135 140
82
83 Ala Glu Ser Gly Gln Val Tyr Phe Gly Ile Ile Ala Leu
84 145 150 155
85
86
87 (2) INFORMATION FOR SEQ ID NO:2:
88
89 (i) SEQUENCE CHARACTERISTICS:
90 (A) LENGTH: 321 base pairs
91 (B) TYPE: nucleic acid
92 (C) STRANDEDNESS: single
93 (D) TOPOLOGY: linear
94
95 (ii) MOLECULE TYPE: cDNA
96
97
98 (ix) FEATURE:
99 (A) NAME/KEY: CDS
100 (B) LOCATION: 1..321
101
102
103 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
104
105 GAC ATC TTG CTG ACT CAG TCT CCA GCC ATC CTG TCT GTG AGT CCA GGA 48
106 Asp Ile Leu Leu Thr Gln Ser Pro Ala Ile Leu Ser Val Ser Pro Gly

Patent Application US/07/943,852

107 1 5 10 15
108
109 GAA AGA GTC AGT TTC TCC TGC AGG GCC AGT CAG TTC GTT GGC TCA AGC 96
110 Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Phe Val Gly Ser Ser
111 20 25 30
112
113 ATC CAC TGG TAT CAG CAA AGA ACA AAT GGT TCT CCT CCA AGG CTT CTC ATA 144
114 Ile His Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile
115 35 40 45
116
117 AAG TAT GCT TCT GAG TCT ATG TCT GGG ATC CCT TCC AGG TTT AGT GGC 192
118 Lys Tyr Ala Ser Glu Ser Met Ser Gly Ile Pro Ser Arg Phe Ser Gly
119 50 55 60
120
121 AGT GGA TCA GGG ACA GAT TTT ACT CTT AGC ATC AAC ACT GTG GAG TCT 240
122 Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Thr Val Glu Ser
123 65 70 75 80
124
125 GAA GAT ATT GCA GAT TAT TAC TGT CAA CAA AGT CAT AGC TGG CCA TTC 288
126 Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Ser His Ser Trp Pro Phe
127 85 90 95
128
129 ACG TTC GGC TCG GGG ACA AAT TTG GAA GTA AAA 321
130 Thr Phe Gly Ser Gly Thr Asn Leu Glu Val Lys
131 100 105
132
133
134 (2) INFORMATION FOR SEQ ID NO:3:
135
136 (i) SEQUENCE CHARACTERISTICS:
137 (A) LENGTH: 107 amino acids
138 (B) TYPE: amino acid
139 (D) TOPOLOGY: linear
140
141 (ii) MOLECULE TYPE: protein
142
143 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
144
145 Asp Ile Leu Leu Thr Gln Ser Pro Ala Ile Leu Ser Val Ser Pro Gly
146 1 5 10 15
147
148 Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Phe Val Gly Ser Ser
149 20 25 30
150
151 Ile His Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile
152 35 40 45
153
154 Lys Tyr Ala Ser Glu Ser Met Ser Gly Ile Pro Ser Arg Phe Ser Gly
155 50 55 60
156
157 Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Thr Val Glu Ser
158 65 70 75 80
159

Patent Application US/07/943,852

160 Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Ser His Ser Trp Pro Phe
161 85 90 95

162
163 Thr Phe Gly Ser Gly Thr Asn Leu Glu Val Lys
164 100 105

165
166 (2) INFORMATION FOR SEQ ID NO:4:

167
168 (i) SEQUENCE CHARACTERISTICS:
169 (A) LENGTH: 357 base pairs
170 (B) TYPE: nucleic acid
171 (C) STRANDEDNESS: single
172 (D) TOPOLOGY: linear

173
174 (ii) MOLECULE TYPE: cDNA

175
176
177 (ix) FEATURE:
178 (A) NAME/KEY: CDS
179 (B) LOCATION: 1..357

180
181
182 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

183
184 GAA GTG AAG CTT GAG GAG TCT GGA GGA GGC TTG GTG CAA CCT GGA GGA 48
185 Glu Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
186 1 5 10 15

187
188 TCC ATG AAA CTC TCC TGT GTT GCC TCT GGA TTC ATT TTC AGT AAC CAC 96
189 Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Ile Phe Ser Asn His
190 20 25 30

191
192 TGG ATG AAC TGG GTC CGC CAG TCT CCA GAG AAG GGG CTT GAG TGG GTT 144
193 Trp Met Asn Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Val
194 35 40 45

195
196 GCT GAA ATT AGA TCA AAA TCT ATT AAT TCT GCA ACA CAT TAT GCG GAG 192
197 Ala Glu Ile Arg Ser Lys Ser Ile Asn Ser Ala Thr His Tyr Ala Glu
198 50 55 60

199
200 TCT GTG AAA GGG AGG TTC ACC ATC TCA AGA GAT GAT TCC AAA AGT GCT 240
201 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ala
202 65 70 75 80

203
204 GTC TAC CTG CAA ATG ACC GAC TTA AGA ACT GAA GAC ACT GGC GTT TAT 288
205 Val Tyr Leu Gln Met Thr Asp Leu Arg Thr Glu Asp Thr Gly Val Tyr
206 85 90 95

207
208 TAC TGT TCC AGG AAT TAC TAC GGT AGT ACC TAC GAC TAC TGG GGC CAA 336
209 Tyr Cys Ser Arg Asn Tyr Tyr Gly Ser Thr Tyr Asp Tyr Trp Gly Gln
210 100 105 110

211
212 GGC ACC ACT CTC ACA GTC TCC 357

Patent Application US/07/943,852

213 Gly Thr Thr Leu Thr Val Ser
214 115
215
216

217 (2) INFORMATION FOR SEQ ID NO:5:

218
219 (i) SEQUENCE CHARACTERISTICS:
220 (A) LENGTH: 119 amino acids
221 (B) TYPE: amino acid
222 (D) TOPOLOGY: linear
223

224 (ii) MOLECULE TYPE: protein
225

226 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

228 Glu Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
229 1 5 . 10 15

230
231 Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Ile Phe Ser Asn His
232 20 25 . 30

233
234 Trp Met Asn Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Val
235 35 . 40 45

236
237 Ala Glu Ile Arg Ser Lys Ser Ile Asn Ser Ala Thr His Tyr Ala Glu
238 50 55 . 60

239
240 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ala
241 65 70 . 75 80

242
243 Val Tyr Leu Gln Met Thr Asp Leu Arg Thr Glu Asp Thr Gly Val Tyr
244 85 90 . 95

245
246 Tyr Cys Ser Arg Asn Tyr Tyr Gly Ser Thr Tyr Asp Tyr Trp Gly Gln
247 100 105 . 110

248
249 Gly Thr Thr Leu Thr Val Ser
250 115

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/07/943,852

DATE: 09/21/92

TIME: 12:01:05

LINE ERROR

ORIGINAL TEXT

29 Response Exceeds Line Limitations

Version #1.25



PAGE: 1

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION US/07/943,852

DATE: 09/21/92
TIME: 12:01:05

MANDATORY IDENTIFIER THAT WAS NOT FOUND

PAGE: 1

SEQUENCE CORRECTION REPORT
PATENT APPLICATION US/07/943,852

DATE: 09/21/92
TIME: 12:01:05

LINE ORIGINAL TEXT

CORRECTED TEXT